

In-Station Diagnostics Cost Survey

ARB Staff Contact: Cindy Castronovo, ccastron@arb.ca.gov, (916) 322-8957

Facility Name:	
Address:	
City:	
Air Pollution District:	
Air Permit Number:	
Facility Contact:	
Facility Phone:	
Person completing Survey:	
Phone for Survey contact:	
Email for Survey contact:	

Gasoline Throughput (check one):

< 300,000 gal/year	
300,001 to 600,000 gal/year	
600,001 to 1,200,000 gal/year	
1,200,001 to 1,800,000 gal/year	
1,800,001 to 2,400,000 gal/year	
> 2,400,000 gal/year	

Number of gasoline dispensers: (note: each dispenser normally has 2 fueling points)Number of gasoline storage tanks:

ISD was installed as part of a (check one)

new facility installation	
retrofit or major modification	

If retrofit, was an existing TLS350 upgraded as part of the ISD install?

Yes <input type="text"/>	No <input type="text"/>	Don't Know <input type="text"/>
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If retrofit of existing facility, please describe below scope of facility modifications:
(ie., UST replacement, dispenser replacement, Phase II system change, etc.)

Permitting Costs

Air District:

New Facility: Cost for Air District Permit to Construct:

Existing Facility: Cost for Air District Permit Modification:

CUPA:

Other permits or inspection costs (please list below):

Total Permit Costs:**Financing Costs**

Please explain below any financing costs associated with ISD installation:

Use of Veeder-Root TLS-350

Please circle "yes" or "no" to the questions below:

YES	NO	Would you have purchased a TLS-350 with probes if ISD was not required?
YES	NO	Do you use the TLS-350 for checking fuel levels or delivery reports?
YES	NO	Do you use the TLS-350 for PLLD or tank leak detection?
YES	NO	Do you use the TLS-350 for sump, brine or vacuum sensor monitoring?
YES	NO	Do you use the FMS alarm monitoring service provided by Veeder-Root? If yes, what is the cost? _____
YES	NO	Did you incur costs associated with training employees on use of the TLS-350? If yes, what was the cost? _____

Any additional comments? _____

In-Station Diagnostics Equipment Costs For NEW INSTALLATIONS

(see next page for retrofit costs for sites that had TLS-350 prior to ISD)

Note: include costs for ISD only - Do not include vapor recovery system equipment

	Component	Part No.	Number Installed	Component List Price	Your Component Price	Total for your site (# components x your price)
Base TLS-350	TLS-350 Plus*	8470ss-xxx 8482xx-xxx		\$2,655		
	Probe Interface Card	329356-xxx		\$445		
	Tank Inventory Sensor(s)	846xxx-xxx, 847xxx-xxx,		\$1,095		
ISD Add-Ons	Vapor Pressure Sensor	331946-001		\$900		
	Vapor Flow Meter	331847-xxx		\$900		
	ISD Software SEM	330160-xxx		\$2,195		
	Dispenser Interface Module (DIM)	330xxx-xxx, 331xxx-xxx		\$795		
	Smart Sensor Interface Card	329356-xxx		\$680		
	NVMEM2	331943-xxx		\$395		
	RS-232 Card	330148-xxx, 329362-xxx, 330586-xxx		\$385		
Other (describe)						
TOTAL:						

*If purchased TLS-350R (includes Business Inventory Reconciliation (BIR)), please note and include price.

(The TLS-350R is not required for ISD and the cost difference will not be counted.)

In-Station Diagnostics Equipment Costs For Retrofit of EXISTING STATIONS with TLS-350

(see previous page for new station installations or existing sites without a TLS-350)

Note: include costs for ISD only - Do not include vapor recovery system equipment

	Component	Part No.	Number Installed	Component List Price	Your Component Price	Total for your site (# components x your price)
TLS-350 Upgrade	ECPUII (motherboard) & Software Upgrade	331500-xxx		\$580		
TLS-350 ISD Add-Ons	ISD Software SEM	330160-xxx		\$2,195		
	Dispenser Interface Module (DIM)	330xxx-xxx, 331xxx-xxx		\$795		
	Smart Sensor Interface Card	329356-xxx		\$680		
	NVMEM2	331943-xxx		\$395		
	RS-232 Card	330146-xxx, 329362-xxx, 330586-xxx		\$385		
ISD Sensor	Vapor Pressure Sensor	331946-001		\$900		
	Vapor Flow Meter	331847-xxx		\$900		
Other (describe)						
TOTAL:						

*If purchased TLS-350R (includes Business Inventory Reconciliation (BIR)), please note and include price.

(The TLS-350R is not required for ISD and the cost difference will not be counted.)

In-Station Diagnostics Installation Costs

Note: Please estimate costs of installing ISD components. One methodology is provided below, but other calculation methods are acceptable. Please remember to separate ISD installation costs from costs due to installation of Healy vapor recovery system components. (Healy vapor recovery components include the VP1000 vacuum assist pump and the Clean Air Separator)

Month of Installation: _____ 2006

FOR ALL FACILITIES:

Sensor Installation

Time to install each flowmeter per dispenser: hours

Time to install pressure sensor (one per site): hours

FOR NEW FACILITIES & EXISTING FACILITIES WITHOUT TLS-350:

New TLS-350 EVR/ISD Installation, Programming & Checklist: hours
(TLS-350 programming for non-ISD reasons should not be included)

FOR EXISTING FACILITIES WITH UPGRADABLE TLS-350:

Upgrade TLS-350 with ISD software & checklist: hours

Other ISD installation costs (please describe below):

 hours
 hours

TOTAL INSTALLATION HOURS: hours

Hourly Labor Cost: \$/hour

TOTAL INSTALLATION COST: \$ _____

Optional Information:

Contractor Installing ISD system: _____

Veeder-Root Authorized Service Contractor ID: _____

Contractor contact info (email and/or phone): _____

In-Station Diagnostics Testing & Maintenance Costs

ISD requirements include an annual Operability Test. This test is first done at ISD installation (included in the installation costs) and then repeated annually as per Executive Order VR-202-A. More frequent ISD system testing may be required by districts.

If you have conducted ISD related testing or ISD maintenance (not vapor recovery system maintenance) after ISD installation, please note costs below. These costs should include equipment and labor costs.

Vapor recovery system repairs made as a result of ISD detected failures should not be included.

Description of Test or Maintenance	Date	Cost	Comment